



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/755,196	01/09/2004	David A. Olaker	10231-003	9206	
29391	7590 09/07/2005		EXAM	EXAMINER	
BEUSSE BROWNLEE WOLTER MORA & MAIRE, P. A. 390 NORTH ORANGE AVENUE			DESIR, PIEF	RRE LOUIS	
SUITE 2500			ART UNIT	PAPER NUMBER	
ORLANDO,	FL 32801		2681		
			DATE MAIL ED: 09/07/2009	ς .	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply			Application No.	Applicant(s)	—				
Examiner	Office Action Summary								
Pierre-Louis Desir The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of them may be available under the provisions of 37 CFR 1.136(s). In overvin, but you be limited the step of the may be suitable under the provisions of 37 CFR 1.136(s). In overvin, but you be used to this communication. If NO period for reply is quedicide show, the meaning date of this communication. Any reply received by the Office later than three months after the mailing date of this communication, even if intelly field, may receive any earned patent term adjustment. See 37 CFR 1.704(s). Status 1) Responsive to communication(s) filed on 09 January 2004. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-2 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5 Claim(s) 1-5 is/are rejected. 7) Claim(s) 1-5 is/are allowed. 6) Claim(s) 1-5 is/are explicated to. 8) Claim(s) 5-7 is/are objected to. 8) Claim(s) 5-7 is/are objected to. 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 09 January 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abovance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.85(a). 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (_				
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Sternstone filter may be available unifed a provised of 17 FF 1.38(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If IN Operoid or reply is specified above, the mailing date of this communication. If NO period for reply is specified above, the mailing date of this communication. If NO period for reply is specified above, the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONTED (35 U.S.C. § 133). Any reply received by the Children later than three combs after the mailing date of this communication, even if timely filed, may reduce any same placent term adjustment. See 37 CFR 1.704(b). Status 1) □ Responsive to communication(s) filed on 09 January 2004. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) 5-5 is/are rejected. 7) □ Claim(s) 6-7 is/are allowed. 6) □ Claim(s) 5-5 is/are rejected to. 8) □ Claim(s) 6-7 is/are objected to by the Examiner. 10 □ The drawing(s) filed on 09 January 2004 is/are: a) □ accepted or b) □ objected to by the Examiner. Application Papers 9) □ The specification is objected to by the Examiner. 10 □ The drawing(s) filed on 09 January 2004 is/are: a) □ accepted or b) □ objected to by the Examiner. Application Papers 9) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 1			Pierre-Louis Desir						
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.13(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is periodical above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is periodical above, the meanitum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) □ Responsive to communication(s) filed on *OS January 2004*.* 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5i □ Claim(s) 1-7 is/are rejected. 7i □ Claim(s) is/are allowed. 6i □ Claim(s) is/are allowed. 6i □ Claim(s) is/are objected to. 8i □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9 □ The specification is objected to by the Examiner. 10 □ The drawing(s) filed on *OS January 2004* is/are: a) □ accepted or b) □ objected to by the Examiner. Application Papers 9 □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12 □ Acknowledgment is made of a claim for foreign priority under 35 U.S	Period fo	- The MAILING DATE of this communication app							
1) ⊠ Responsive to communication(s) filed on 09 January 2004. 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☒ Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☒ Claim(s) 6-7 is/are rejected. 7) ☒ Claim(s) 6-7 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 09 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(c) 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in Institutional Stage application from the International Bureau (PCT Rule 17.2(a)).	WHIC - Extensions after S - If NO - Failure Any re	HEVER IS LONGER, FROM THE MAILING D sions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period e to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-5 is/are rejected. 7) Claim(s) 6-7 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on _09 _January 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(c 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All _b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).	Status								
2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-5 is/are rejected. 7) Claim(s) 6-7 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on _09 _January 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(c 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All _b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).	1)⊠	Responsive to communication(s) filed on 09.1.	anuary 2004						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-5 is/are allowed. 6) Claim(s) 1-5 is/are rejected. 7) Claim(s) 6-7 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 09 January 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(c) 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some coll None of: 1. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).				•					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-5 is/are rejected. 7) Claim(s) 6-7 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 09 January 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(c) 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).	<i>,</i> —								
A) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-5 is/are rejected. 7) Claim(s) 6-7 is/are objected to. 8) Claim(s) 6-7 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filled on 09 January 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(c) 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).		•							
4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on 39_ January 2004 is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(c 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).									
4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on 39_ January 2004 is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(c 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).	·								
5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) _6-7 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on _09 _January _2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(c11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All _b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).		· · · · · · · · · · · · · · · · · · ·							
6) ☐ Claim(s) 1-5 is/are rejected. 7) ☐ Claim(s) 6-7 is/are objected to. 8) ☐ Claim(s) 6-7 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 09 January 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(c11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).		•							
7) Claim(s) 6-7 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 29									
8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 09 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(c11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).									
Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 09 January 2004 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(c11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).	·								
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 09 January 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(cmode) 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).			r election requirement.						
10) ☐ The drawing(s) filed on 09 January 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(color) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).	Application	on Papers							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(co. 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).	•								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(c 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).	10)⊠ Т	The drawing(s) filed on <u>09 January 2004</u> is/are	: a)⊠ accepted or b)⊡ objected	to by the Examiner.					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).				· ·					
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 	11)∐ T	The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	Action or form PTO-152.					
 a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 	riority u	nder 35 U.S.C. § 119							
Attachment(s)		•							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Pager No(s)/Mail Date									
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date B) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152) Paper No(s)/Mail Date April 21, 2004. 6) ☐ Other:) 🛛 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal P						

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hoctor et al. (Hoctor), Pub. No. US 20040002347, in view Hawkes et al. (Hawkes), U.S. Patent No. 6201499.

Hoctor discloses a method for determining a location of a digital radio transmitter (see abstract) comprising: detecting, by at least three spatially separated receivers (see fig. 1, page 2, and paragraph 22), a digitally encoded radio signal having a known pattern of bit transitions radiated from the transmitter (i.e., the receiver of the base station receives signals from the mobile device. The inbound burst transmissions are identified to the base stations by means of unique identifying information encoded in the RF burst) (see page 2, paragraph 23); determining, at each of the receivers, a time of arrival of at least some of the bit transitions (i.e., calculating, at each of the at least three receivers, time difference of arrival information based on the wireless signals) (see page 2, and paragraph 12); transmitting, from each of the receivers, an indication of the time of arrival at each respective receiver for each of the at least some bit transitions to a central processor (i.e., communicates differences in times of arrival to the central processor) (see page 2, paragraph 23).

Although Hoctor discloses a method as described, Hoctor does not specifically disclose a method comprising determining, at the central processor, time of arrival differences of common bit transitions among the receivers; and calculating, at the central processor, the location of the transmitter based on the time of arrival differences.

However, Hawkes discloses a method comprising determining, at the central processor, time of arrival differences of common bit transitions among the receivers (i.e., time of arrival measurements at the receiving sensors are transmitted to a central processor where the time difference of arrival data is calculated) (see col. 2, line 65 through col. 3, line 1); and calculating, at the central processor, the location of the transmitter based on the time of arrival differences (see col. 3, lines 1-2).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by Hoctor with the teachings as described by Hawkes to arrive at the claimed invention. A motivation for doing so would have been to obtain an accurate calculation of the location of the transmitter.

Regarding claim 2, Hoctor discloses a method as described above (see claim 1 rejection).

Although Hoctor discloses a method as described, Hoctor does not specifically disclose a method further comprising averaging respective times of arrivals for multiple bit transitions in the digitally encoded radio signal to generate an average time of arrival for the digitally encoded radio signal.

However, Hawkes discloses a method further comprising averaging respective times of arrivals for multiple bit transitions in the digitally encoded radio signal to generate an average time of arrival for the digitally encoded radio signal (i.e., multiple

Application/Control Number: 10/755,196

Art Unit: 2681

receiving sensors measure the time of arrival of the same transmitter signal) (see col. 2, lines 63-65).

Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings as described by Hoctor with the teachings as described by Hawkes to arrive at the claimed invention. A motivation for doing so would have been to ensure the proper result, as related to the location of the transmitter, is obtained.

Regarding claim 3, Hoctor discloses a method for determining a location of a digital radio transmitter (see abstract) comprising: detecting a digitally encoded radio signal radiated from the transmitter by at least three spatially separated receivers (i.e., the receiver of the base station receives signals from the mobile device. The inbound burst transmissions are identified to the base stations by means of unique identifying information encoded in the RF burst) (see fig. 1, page 2, paragraph 23); receiving, at each of the receivers, a common synchronizing signal (i.e., the receiver receives a sequence of TR/DH symbols, and only samples close to the expected time of the next bit are processed. Thus, the receiver receives signals in coordination with time) (see page 5, paragraph 50. Also see page, paragraph 23); detecting, at each of the receivers, bit transitions in the radio signal (i.e., detecting bit value) (see page 5, paragraph 49); recognizing a desired pattern of bit transitions (i.e., identifying bit patterns) (see page 5. paragraph 57); determining, at each of the receivers, a respective time of acquisition, offset from the synchronizing signal, for at least some of the bit transitions comprising the desired pattern (i.e., calculating, at each of the at least three receivers, time difference of arrival information based on the wireless signals) (see page 2, and paragraph 12; and page 5, paragraph 54); transmitting, from each of the receivers, an indication of the times

Application/Control Number: 10/755,196

Art Unit: 2681

of acquisition to a central processor (i.e., communicates differences in times of arrival to the central processor) (see page 2, paragraph 23).

Although Hoctor discloses a method as described, Hoctor does not specifically disclose a method comprising determining, at the central processor, time of arrival differences among receivers from differences in the respective indications for common bit transitions in a desired pattern; and calculating, at the central processor, the location of the transmitter from the time of arrival differences.

However, Hawkes discloses a method comprising determining, at the central processor, time of arrival differences among receivers from differences in the respective indications for common bit transitions in a desired pattern (i.e., time of arrival measurements at the receiving sensors are transmitted to a central processor where the time difference of arrival data is calculated) (see col. 2, line 65 through col. 3, line 1); and calculating, at the central processor, the location of the transmitter from the time of arrival differences (see col. 3, lines 1-2).

Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings as described by Hoctor with the teachings as described by Hawkes to arrive at the claimed invention. A motivation for doing so would have been to obtain an accurate calculation of the location of the transmitter.

Regarding claim 4, Hoctor discloses a method for determining a location of a digital radio transmitter (see abstract) comprising: detecting a digitally encoded radio signal radiated from the transmitter by at least three spatially separated receivers (i.e., the receiver of the base station receives signals from the mobile device. The inbound burst transmissions are identified to the base stations by means of unique identifying

information encoded in the RF burst) (see fig. 1, page 2, paragraph 23); receiving, at each of the receivers, a common synchronizing pulse (i.e., the receiver receives a sequence of TR/DH symbols, and only samples close to the expected time of the next bit are processed. Thus, the receiver receives signals in coordination with time) (see page 5. paragraph 50. Also see page, paragraph 23); parsing, at each of the receivers, a received radio signal into data block samples (i.e., the samples derived for each waveform may be accumulated (parsed) in 4 corresponding registers) (see page 4, paragraph 46); detecting, at each of the receivers, potential bit transitions in the data block samples (i.e., code word detection) (page 4, paragraph 43, and page 5, paragraph 49); generating, at each of the receivers, bit transitions from the potential bit transitions (i.e., set of code words is generated) (see page 4, and paragraph 38); recognizing, at each of the receivers, a desired pattern of bit transitions (i.e., identifying bit patterns) (see page 5, paragraph 57); determining, at each of the receivers, a respective time of acquisition for at least some of the bit transitions comprising the desired pattern (i.e., calculating, at each of the at least three receivers, time difference of arrival information based on the wireless signals) (see page 2, and paragraph 12; and page 5, paragraph 54); transmitting, from each of the receivers, an indication of the times of acquisition to a central processor (i.e., communicates differences in times of arrival to the central processor) (see page 2, paragraph 23).

Although Hoctor discloses a method as described, Hoctor does not specifically disclose a method comprising time stamping, at each of the receivers, each data block sample with a time stamp offset from the common synchronizing pulse; determining, at a central processor, time of arrival differences among receivers from differences in the

Application/Control Number: 10/755,196

Art Unit: 2681

respective times of acquisition for common bit transitions in a desired pattern received from each of the receivers; and calculating, at the central processor, the location of the transmitter from the time of arrival differences.

However, Hawkes discloses a method comprising time stamping samples at each of the receivers samples (i.e., time stamp may be associated with any sample) (see col. 9, lines 26-28); determining, at a central processor, time of arrival differences among receivers from differences in the respective times of acquisition for common bit transitions in a desired pattern received from each of the receivers (i.e., time of arrival measurements at the receiving sensors are transmitted to a central processor where the time difference of arrival data is calculated) (see col. 2, line 65 through col. 3, line 1); and calculating, at the central processor, the location of the transmitter from the time of arrival differences (see col. 3, lines 1-2).

Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings as described by Hoctor with the teachings as described by Hawkes to arrive at the claimed invention. A motivation for doing so would have been to obtain an accurate calculation of the location of the transmitter.

Regarding claim 5, Hoctor discloses a method (see claim 4 rejection) further comprising, for each receiver: convolving potential bit transitions in the received data block with at least two desired bit transitions to generate a correlation waveform corresponding to each of the desired bit transitions (i.e., the base station receiver is configured to receive and demodulate signals received by applying separate correlator circuits, each associated with a separate delay-hopping code. Thus, the signals, through the correlator circuit would be coiled up to generate correlation waveform, as related to

the desired code word) (see page 4, paragraph 39); and generating a bit transition corresponding to the correlation waveform having a highest peak magnitude (see fig. 6, page 4, paragraph 41).

Allowable Subject Matter

3. Claims 6-7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Richley et al., "Object Location System and Method," Pub. No. US 20040108954.

Bent et al., "Location System and Method," U.S. Patent No. 4916455.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pierre-Louis Desir whose telephone number is 703-605-4312. The examiner can normally be reached on (571) 272-7799.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on (571) 272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Pierre-Louis Desir

AU 2681 09/01/2005 JEAN GELIN PRIMARY EXAMINER